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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

DUONG, DUC T

ART UNIT	PAPER NUMBER
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2616

DATE MAILED: 10/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/976,213

Applicant(s)

PARRUCK ET AL.

Examiner

Duc T. Duong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 July 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 23,24,45,46 and 48-54 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 23 and 24 is/are allowed.
- 6) ☒ Claim(s) 45,46,48-50 and 52-54 is/are rejected.
- 7) ☒ Claim(s) 51 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2/7/06.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. The indicated allowability of claims 45, 46, and 48-54 are withdrawn in view of the newly discovered reference(s) to Belz et al (US Patent 6,980,552 B1). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 45, 46, 48-50, and 52-54 are rejected under 35 U.S.C. 102(b) as being anticipated by Belz et al (US Patent 6,980,552 B1).

Regarding to claims 45 and 54, Belz discloses a multi-service segmentation and reassembly MS-SAR integrated circuit 200 employing a plurality of logical input ports (fig. 2 col. 7 lines 5-13), the MS-SAR comprising bus interface circuitry (fig. 15 col. 29 lines 65-67; arrow entering element 1510); a segmentation engine 1560 that receives a plurality of flows via the bus interface circuitry, each of the plurality of flows comprising a plurality of packets, the segmentation engine segmenting the packets of the flows on a per logical input port basis such that at any one time at most substantially one packets being segmented for each of the plurality of logical input ports, the segmenting of a packet resulting in a plurality of segments (fig. 15 col. 31 lines 64-67 and col. 32 lines 1-2); and a memory manager 1520, wherein the segmentation engine passes a plurality of

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chunks to the memory manager, each of the chunks comprising one of the segments, the memory manager storing each of the each of the chunks into a corresponding memory buffer 225 (fig. 15 col. 30 lines 1-15).

Regarding to claim 46, Belz discloses the segmentation engine receives a packet as a plurality of bursts, and wherein the segmentation engine accumulates several bursts to form a segment (col. 7 lines 41-44).

Regarding to claim 48, Belz discloses the segmentation engine segments one and only one packet for each of the plurality of logical input ports (col. 31 lines 66-67 and col. 32 lines 1-2).

Regarding to claim 49, Belz discloses a plurality of logical input ports (col. 32 lines 1-2; the logical input ports are active when there is data to be transmitted and inactive when there is no data to be transmitted).

Regarding to claim 50, Belz discloses the segmentation engine maintains at most one segmentation context (slot) per packet being segmented (col. 32 lines 1-2).

Regarding to claim 52, Belz discloses the plurality of flows pass from the bus interface circuitry, through a lookup engine 1510, and to the segmentation engine 1560 (fig. 15 col. 30 lines 1-15).

Regarding to claim 53, Belz discloses the segmentation engine also receives a flow of cells via the bus interface circuitry, the segmentation engine segmenting the cells into segments (col. 10 lines 54-61).

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Allowable Subject Matter

4. Claim 51 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. Claims 23 and 24 are allowed.

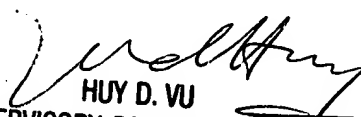
Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Duong whose telephone number is 571-272-3122. The examiner can normally be reached on M-F (9:00 AM-6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D. Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DD


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